



Style 101H Heavy Duty Flexible Coupling is designed with flat-pad housings, to create flexibility of the pipeline in both axial and angular direction, by keeping a certain gap between the housing key and pipe groove. Lateral movement is achieved by connection with two 101H H.D. flexible couplings. The unique “C” shape gasket performs triple sealing functions. With tested and proven compression set and pocket volumetric, the gasket retains sealing capacity even if the pipe deflects or rotates.

Size:

- DN25-DN300 | 1-12”
- For Sizes 14” and up, please refer to UG28.

Maximum Working Pressure:

- 5.2MPa(750psi)
- Working pressure depend on material, wall thickness and pipe size

Material Specifications

Housing:

Ductile iron conforming to ASTM A536, Grade 65-45-12, other material also available, please consult VISION.

Coating:

Orange-Standard

Red- Optional

Hot-Dipped, Zinc Galvanized-Optional

Bolts/Nuts:

Heat-treated plated carbon steel, trackhead meeting the physical and chemical requirements of ASTM A-449 and physical requirements of ASTM A-183.

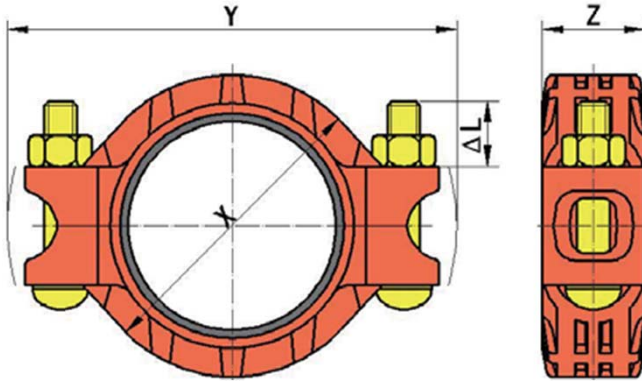
Gasket:

Grade “E” EPDM gaskets have a green striped color code identification and conform to ASTM D2000 for service temperatures from -34°C to 110°C(-30°F to 230°F). They are recommended for hot water not to exceed 110°C(230°F), plus a variety of dilute acids, oil free air, and many chemical service.

Grade “T” Nitrile gaskets have an orange striped color code identification and conform to ASTM D2000 for service temperatures from -29°C to 82°C(-20°F to 180°F). They are recommended for petroleum products, vegetable oils, mineral oils, and air with oil vapors. For more material of the gaskets, please refer to VISION publication 09.05.

Rigid Coupling Style 101H

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Size		Working Pressure	End Load	Pipe End Separation	Deflection from Centerline	Dimensions				Bolt/Nut		Weight	
Nominal	Actual O.D.	Max.	Max.	Max.	Per cplg	PIPE	X	Y	Z	ΔL	Size	Torque	Approximate
mm	mm	Mpa	N	mm	Degrees	mm/m	mm	mm	mm	mm	mm	N.m	kg
Inches	Inches	Psi	Lbs.	Inches		inches/ft.	Inches	Inches	Inches	Inches	Inches	Lbs.ft	Lbs.
25	33.4	5.2	4532	0-2.24			55	101	45	15	M10×50	40-60	0.5
1	1.315	750	1018	0-0.09			2.17	3.98	1.77	0.59	3/8×2	30-44	1.1
32	42.4	5.2	7303	0-2.24			64	111	45	15	M10×50	40-60	0.6
1¼	1.660	750	1622	0-0.09			2.52	4.37	1.77	0.59	3/8×2	30-44	1.3
40	48.3	5.2	9477	0-2.24			70	117	45	15	M10×50	40-60	0.7
1½	1.900	750	2125	0-0.09			2.76	4.61	1.77	0.59	3/8×2	30-44	1.4
50	60.3	5.2	14771	0-2.64			87	131	47	15	M10×50	40-60	0.8
2	2.375	750	3321	0-0.10			3.43	5.16	1.85	0.59	3/8×2	30-44	1.8
65	73.0	5.2	21648	0-2.94			101	150	49	15	M10×55	40-60	1.0
2½	2.875	750	4866	0-0.12			3.98	5.91	1.93	0.59	3/8×2¼	30-44	2.4
80	88.9	5.2	32106	0-3.14			118	165	49	15	M10×55	40-60	1.2
3	3.500	750	7212	0-0.12			4.65	6.50	1.93	0.59	3/8×2¼	30-44	2.6
90	101.6	5.2	41934	0-3.54			133	181	51	23	M12×75	80-120	1.7
3½	4.000	750	9420	0-0.14			5.24	7.13	2.01	0.91	½×3	59-89	4.0
100	114.3	5.2	53073	0-3.74			147	201	53	23	M12×75	80-120	1.9
4	4.500	750	11922	0-0.15			5.79	7.91	2.09	0.91	½×3	59-89	4.2
125	139.7	5.2	79282	0-4.04			174	241	53	32	M16×90	180-240	2.5
5¼OD	5.500	750	17810	0-0.16			6.85	9.49	2.09	1.26	¾×3½	133-178	5.5
125	141.3	5.2	81108	0-4.04			176	243	53	32	M16×90	180-240	2.5
5	5.563	750	18220	0-0.16			6.93	9.57	2.09	1.26	¾×3½	133-178	5.5
150	165.1	5.2	110732	0-4.74			205	271	53	32	M16×90	180-240	2.9
6¼OD	6.500	750	24875	0-0.19			8.07	10.67	2.09	1.26	¾×3½	133-178	6.4
150	168.3	5.2	115066	0-4.74			205	286	53	32	M16×90	180-240	3.1
6	6.625	750	25841	0-0.19			8.07	11.26	2.09	1.26	¾×3½	133-178	6.8
175	193.7	4.1	121641	0-4.90			233	316	61	36	M20×100	280-360	4.8
7	7.626	600	27391	0-0.19			9.17	12.44	2.40	1.42	¾×4	207-267	10.6
200A	216.3	4.1	151682	0-4.90			258	330	63	36	M20×100	280-360	5.4
8	8.500	600	34030	0-0.19			10.16	12.99	2.48	1.42	¾×4	207-267	11.7
200	219.1	4.1	155634	0-4.90			263	341	63	36	M20×100	280-360	5.4
8	8.625	600	35038	0-0.19			10.35	13.43	2.48	1.42	¾×4	207-267	11.7
250A	267.4	3.5	193647	0-4.90			312	391	63	36	M20×120	280-360	7.5
10	10.525	500	43479	0-0.19			12.28	15.39	2.48	1.42	¾×4¾	207-267	16.5
250	273.0	3.5	201843	0-4.90			319	402	63	36	M20×120	280-360	7.5
10	10.750	500	45358	0-0.19			12.56	15.83	2.48	1.42	¾×4¾	207-267	16.5
300A	318.5	2.8	218988	0-4.90			362	449	64	36	M20×120	280-360	11.5
12	12.525	400	49259	0-0.19			14.25	17.68	2.52	1.42	¾×4¾	207-267	26.2
300	323.9	2.8	226477	0-4.90			370	455	64	36	M20×120	280-360	11.9
12	12.750	400	51045	0-0.19			14.57	17.91	2.52	1.42	¾×4¾	207-267	26.2

- The max. pipe end separation and deflection is for cut grooved standard weight pipe. Values for roll grooved pipe will be half of the cut grooved.
- Working Pressure and end load are total, from internal and external loads based on standard weight steel pipe.



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